BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work : Asphalting road from Amruthahalli Main road to Jakkur Burrial ground in Ward No.05

							Estimate Cost:Rs.		9000000
Sl No	Description of work	No	Dimensions			Quantity	Rate	Unit	Amount
			L	B	D				
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specificatioMORTH Chapte(**P-142, It,-19.2)**								
	Basic Rate	113.00							
	Area Weightage 6%	6.78							
	Total	**119.78**							
	BB NAGAR	5	95.00	0.80	0.85	323.00			
		3	15.00	0.80	0.85	30.60			
	NOOR NAGAR	2	201.00	0.80	0.85	273.36			
		2	35.00	0.80	0.85	47.60			
	CULVERT	1	7.00	1.00	1.00	7.00			
		7	7.00	1.50	0.85	62.48			
	SSM	1	75.00	2.10	1.35	212.63			
	ROAD JAKKUR	1	155.00	5.50	0.20	170.50			
	AGRAHARA LAYOUT	1	131.00	4.75	0.20	124.45			
	MERKANDAYA LAYOUT	1	130.00	6.00	0.20	156.00			
					Total	**1407.61**	**119.78**	**Cum**	**168604**
2	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 **(P-130, It.No. 17.1)**								
	Basic Rate Conveying for 10 km	88.60							
	Area Weightage 6%	5.32							
	Total	**93.92**							
						1407.61			
					Total	**1407.61**	**93.92**	**Cum**	**132197**
3	KSRB 4-1.1: Providing and laying in position plain cement concrete of nominal mix 1:3:6 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Specification No. KBS 4.1, 4.2 **(P-12, It.4.2)**								
	Basic Rate:	5046.00							
	Area Weightage 6%	302.76							
	Total	**5348.76**							
	DRAIN	5	95.00	0.80	0.15	57.00			
		3	15.00	0.80	0.15	5.40			
		2	201.00	0.80	0.15	48.24			
		2	35.00	0.80	0.15	8.40			
		1	7.00	1.00	0.15	1.05			
		7	7.00	1.50	0.15	11.03			
		1	75.00	2.10	0.15	23.63			
					Total	**154.74**	**5348.76**	**Cum**	**827667**

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
4	KSRB 4.2.2:Providing andlaying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @0.878 cum and fine aggregates @ 0.459 cum, with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed -2008, machine mixed, concrete laid in layres not exceeding 15 cms, thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase,lintles, retaining walls, return walls, walls (any thickness) includng attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills fillets etc, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.6 **(P-13, It.4.11)**								
	Basic Rate	6011.00							
	Area Weightage 6%	360.66							
	Total	6371.66							
		5	95.00	0.80	0.10	38			
		10	95.00	0.1	0.6	57			
		3	15.00	0.80	0.10	3.6			
		6	15.00	0.1	0.6	5.4			
		2	201.00	0.80	0.10	32.16			
		4	201.00	0.1	0.6	48.24			
		2	35.00	0.80	0.10	5.6			
		4	35.00	0.1	0.6	8.4			
						198.40	**6371.66**	**Cum**	**1264137**
5	KSRB 4.9-2:Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification NO.KBS 4.6.3 **(P-17, It.4.46.2)fe 500**								
	Basic Rate	60607.00							
	Area Weightage 6%	1818.21							
	Total	**62425.21**							
	Qty @ 50Kg/Cum		1.00	99.20		99.20			
					Total	**9.92**	**62425.21**	**ton**	**619258**
6	KSRB 4-6.4:Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for vertical surface such as walls at any thickness, including attached plasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(P-17 It.4.31)**								
	Basic Rate	293.00							
	Area Weightage 6%	17.58							
	Total	**310.58**							
		20	95.00		0.60	1140.00			
		12	15.00		0.60	108.00			
		8	201.00		0.60	964.80			
		4	35.00		0.60	84.00			
		4	7.00		0.60	16.80			
					Total	**2313.60**	**310.58**	**Sqm**	**718558**
7	KSRB 5.2-3:Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications. **(P-25, It5.6)**								
	Basic Rate:	4187.00							
	Area Weightage 6%	251.22							
	Total	**4438.22**							
		14	7.00	0.45	0.65	28.67			

Sl No	Description of work	No	Dimensions			Quantity	Rate	Unit	Amount
			L	B	D				
		2	75.00	0.45	1.20	81.00			
					Total	**109.67**	**4438.22**	**Cum**	**486717**
8	*KSRB 4-1.6:Providing and laying in position plain cement concrete of mix M15 with cement @240kgs with 20mm and down size graded granite metal, coarse aggregate @0.878cum and fine aggregate @0..459 cummachine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.* ***(P-12, It.4.6)***								
	Basic Rate:	5441.00							
	Area Weightage 6%	326.46							
	Total	**5767.46**							
	coping	14	7.00	0.45	0.100	4.41			
		2	75.00	0.45	0.100	6.75			
					Total	**11.16**	**5767.46**	**Cum**	**64365**
9	*KSRB 15-1.2:Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.* **(P-109 It.15.2)**								
	Basic Rate:	95.00							
	Area Weightage 3%	2.85							
	Total	**97.85**							
		14	6.00		0.6	50.40			
		2	75.00		0.6	90.00			
					Total	**140.40**	**Sqm**	**97.85**	**13738**
10	*Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials labour curing complete as per specifications (Data Rate Aproved)*								
	Total	**4402.79**							
		7	12.00	1.20		100.80			
		1	7.00	1.50		10.50			
					Total	**111.30**	**4402.79**	**Sqm**	**490031**
11	*Providing and fixing 10 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials labour curing complete as per specifications (Data Rate Aproved)*								
	Total	**2100.00**							
		5	95.00	0.75		356.25			
		3	15.00	0.75		33.75			
		2	201.00	0.75		301.50			
		2	35.00	0.75		52.50			
					Total	**744.00**	**2100.00**	**Sqm**	**1562400**
	ROAD								
12	*KSRRB M300-55. Construction of sub-grade and earthen shoulders with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller)* *MORTH Specification No. 305* ***(P-148, It,-19.62)***								
	Basic Rate:	302.00							
	Area Weightage 3%	9.06							
	Total	**311.06**							
		1	155.00	5.50	0.15	127.88			

Sl No	Description of work	No	Dimensions			Quantity	Rate	Unit	Amount
			L	B	D				
		1	131.00	4.75	0.15	93.34			
		1	130.00	6.00	0.15	117.00			
					Total	338.21	311.06	Cum	105204
13	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P-158, It.No. 20.18)								
	Basic Rate	1668.00							
	Area Weightage 6%	100.08							
	Total	1768.08							
		1	155.00	5.50	0.2	170.50			
		1	131.00	4.75	0.2	124.45			
		1	130.00	6.00	0.2	156.00			
						450.95	1768.08	Cum	797316
14	KSRRB 500-1. Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH Chapter 5 (**P-161 IT NO 21.1)**								
	Basic Rate	13.00							
	Area Weightage 6%	0.78							
	Total	**13.78**							
		1	155.00	5.50		852.5			
		1	131.00	4.75		622.25			
		1	130.00	6.00		780			
					Total	2254.75	13.78	SQM	31070
15	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **PAGE161 IT NO 21.6**								
	Basic Rate	26.00							
	Area Weightage 6%	1.56							
	Total	**27.56**							
	ASP ROA, New form'n	1	155.00	5.50		852.50			
		1	131.00	4.75		622.25			
		1	130.00	6.00		780.00			
					Total	2254.75	27.56	Sqm	62141
16	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications **PAGE165IT NO 21.23.2**								
	Basic Rate	8151.00							
	Area Weightage 6%	489.06							
	Total	**8640.06**							
	ASP ROA, New form'n	1	155.00	5.50	0.040	34.10			
		1	131.00	4.75	0.040	24.89			
		1	130.00	6.00	0.040	31.20			

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
						90.19	8640.06	Cum	779247
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **PAGE185IT NO 24.15**								
	Basic Rate	512.00							
	Area Weightage 6%	30.72							
	Total	**542.72**							
	ASP ROA, New form'n	2.5	155.00	0.15		58.13			
		2.5	131.00	0.15		49.13			
		2.5	130.00	0.15		48.75			
						156.00	542.72	SQM	84664
									8207315
									738658
18	9% of KRIDL charges								50000
19	1%PMC							L/S	4027
20	Miscellaneous & Rounding off								9000000
	Total Rs:								

CERTIFICATE

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2016-2017

Assistant Engineer
Project Division

Executive Engineer
Project Division,
Yelahanka Zone.
9/x/17

Assistant Executive Engineer
Project Division

Administrative Approval
Accorded For 90.00 lakhs
Head of A/C P-3112
CER NO :46/17-18
A.E. (Project) 9/x

Technical Sanction
Accorded For 90.00 lakhs
Head of A/C P-3112
CER NO 136/17-18
TA CE (Proj)